

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

04/08/2011

Cameron Merrill  
Assistant District Attorney, Suffolk County

Dear ADA Merrill,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Della Saunders.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)



DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITY

GROSS  
WEIGHT

LAB USE ONLY  
ANALYSIS  
NUMBER

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

Della Saunders

### Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

### Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

### Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts

No. [REDACTED] Date Analyzed: FEB 04 2011

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 11/10/2010

No. Analyzed:

Gross Wt.: 1.80

Net Weight: 0.17

# Tests: 6 ASD

Prelim: Cocaine (C)

Findings: Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ASJ  
No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

off white chunky substance  
(7-P)

Gross Wt ( ): 0.2382  
Gross Wt ( ):             
Pkg. Wt:             
Net Wt: 0.1762

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +  
Marquis -  
Froehde's -  
Mecke's -

### Microcrystalline Tests

Gold  
Chloride +  
TLTA ( - ) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

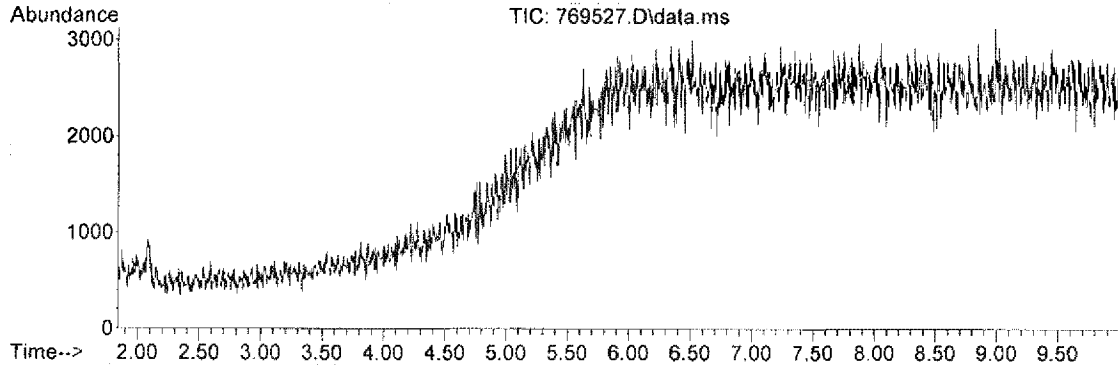
RESULTS cocaine  
DATE 2-1-11

## GC/MS CONFIRMATORY TEST

RESULTS cocaine  
MS  
OPERATOR PCS  
DATE 02-04-11

## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769527.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 13:20  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



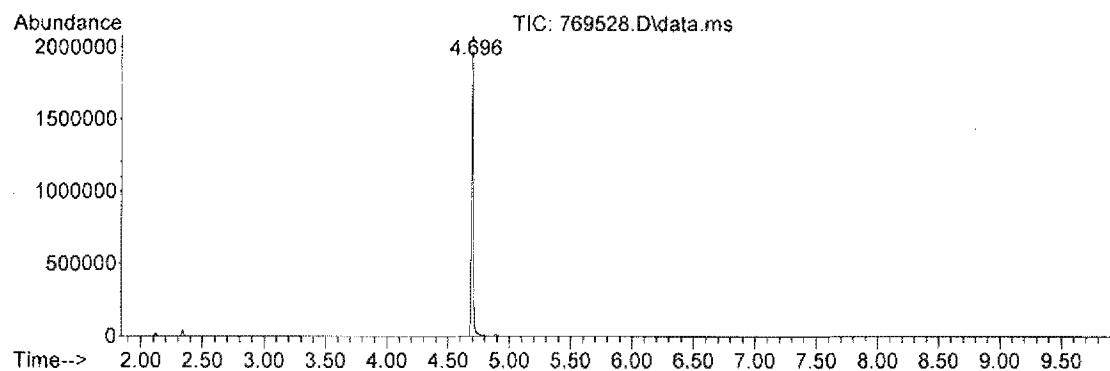
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

✓ 4/8/11 JES

## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769528.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 13:32  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

|       |         |        |        |
|-------|---------|--------|--------|
| 4.696 | 2135050 | 100.00 | 100.00 |
|-------|---------|--------|--------|

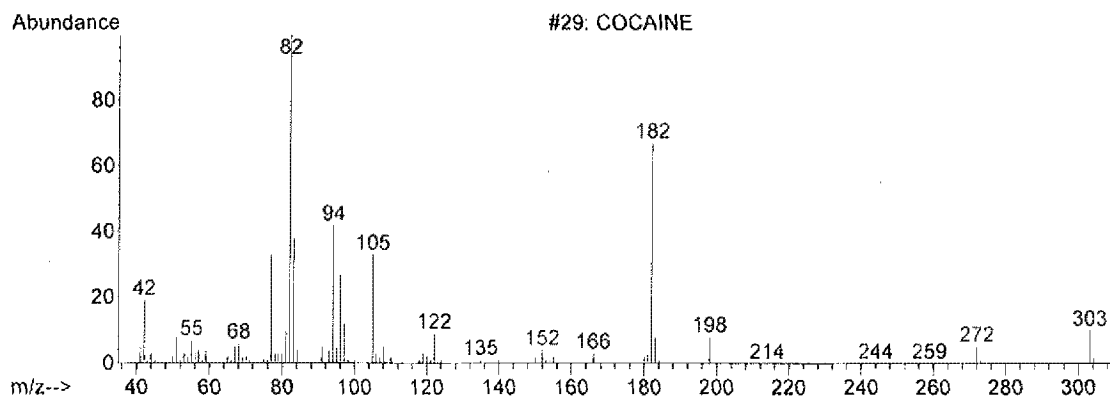
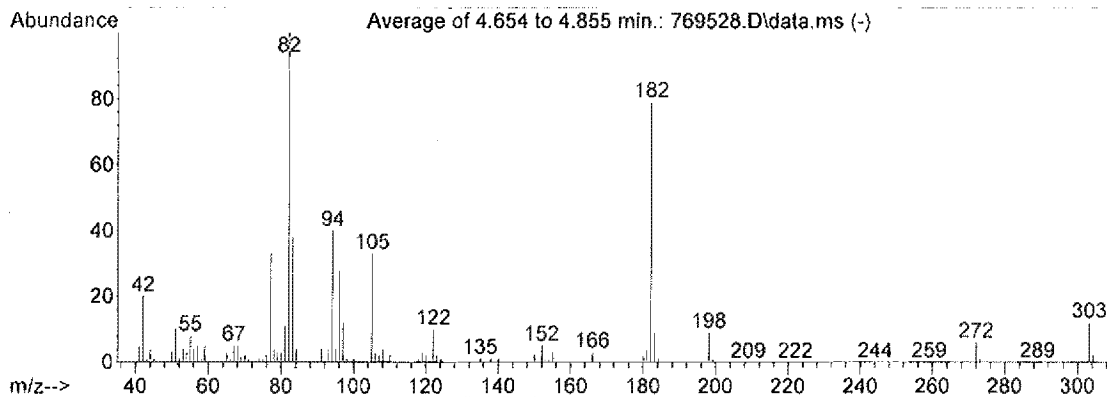


## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769528.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 13:32  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

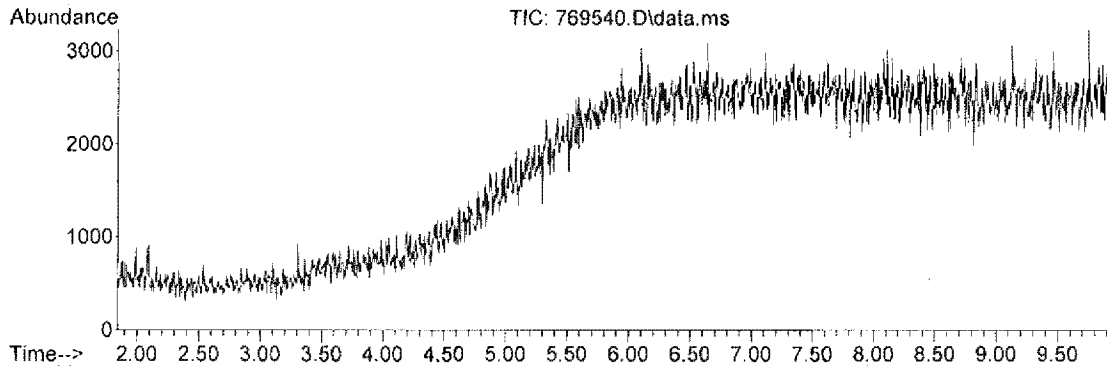
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C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.70 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769540.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 16:03  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

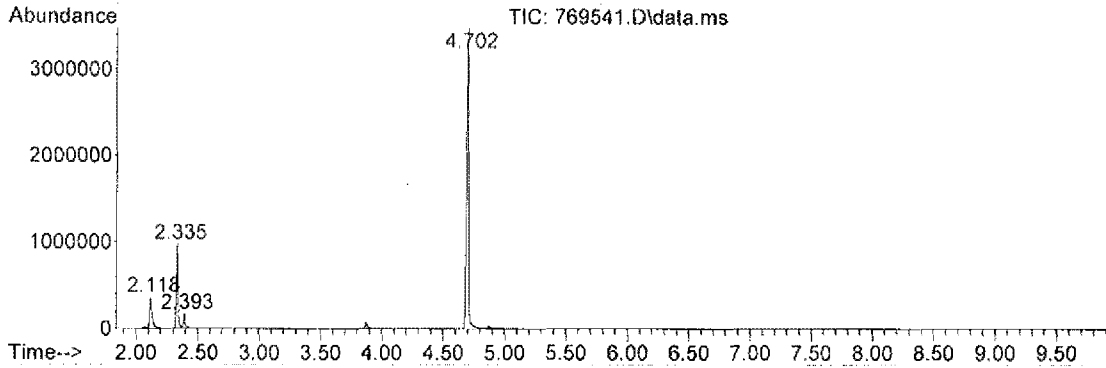


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769541.D  
 Operator : DCS  
 Date Acquired : 3 Feb 2011 16:16  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 41  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



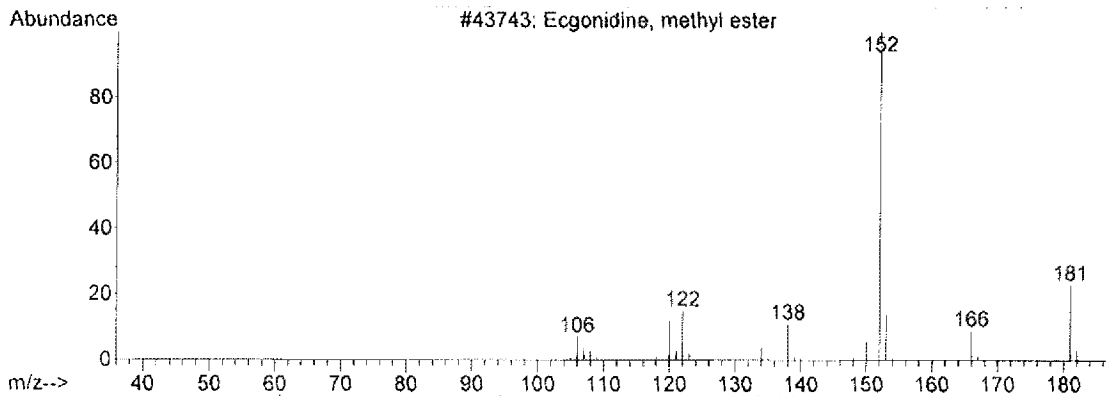
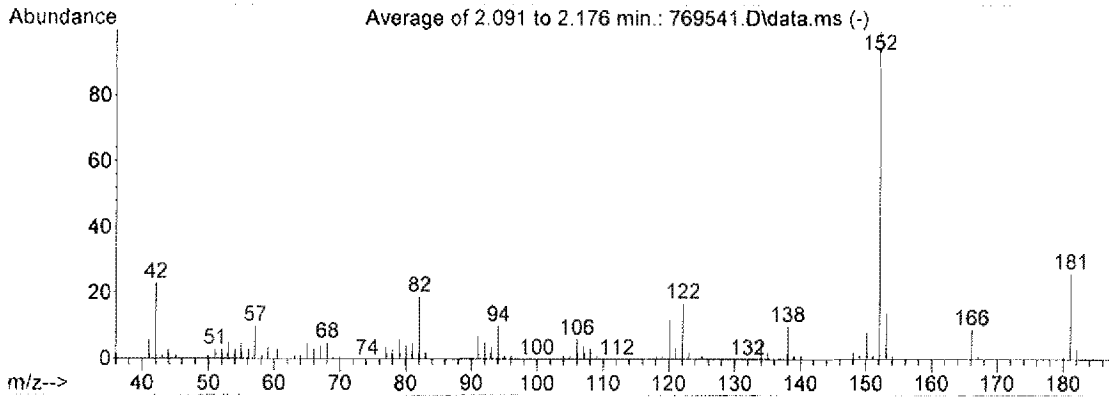
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.118     | 468169  | 8.10   | 11.14   |
| 2.335     | 932944  | 16.13  | 22.20   |
| 2.393     | 179815  | 3.11   | 4.28    |
| 4.702     | 4202405 | 72.66  | 100.00  |

## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769541.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 16:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 41  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 2.12 | C:\Database\NIST05a.L               |             |      |
|     |      | Ecgonidine, methyl ester            | 127379-24-2 | 98   |
|     |      | 2-Carbomethoxy-8-methyl-8-azabicycl | 043021-26-7 | 95   |
|     |      | 2(1H)-Pyridinone, 4-hydroxy-6-methy | 007135-82-2 | 38   |

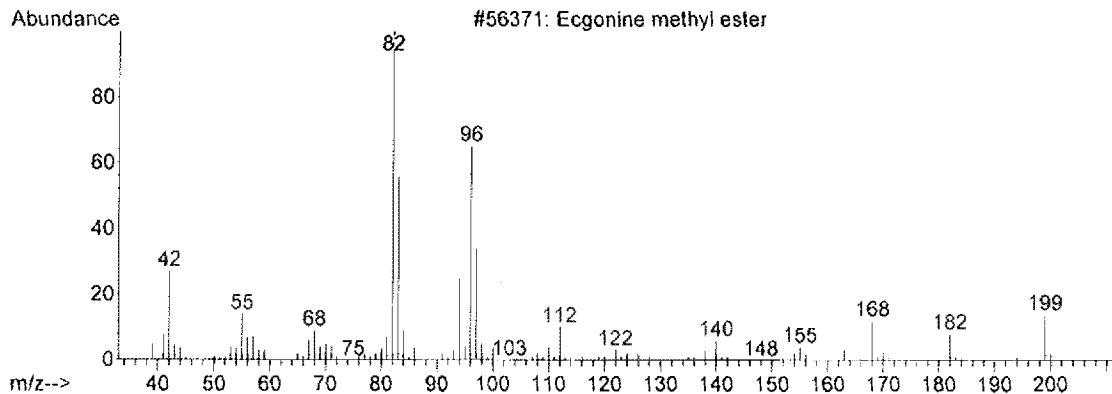
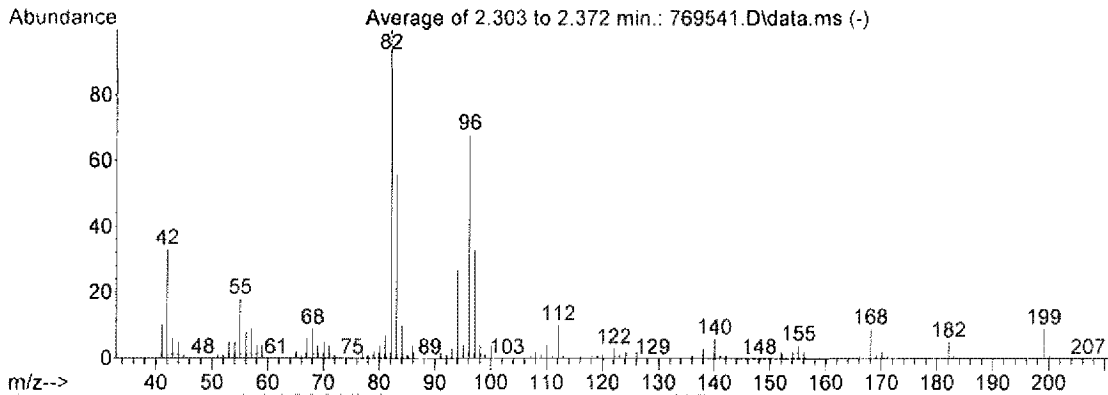


## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769541.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 16:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 41  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 2   | 2.33 | C:\Database\NIST05a.L |             |      |
|     |      | Ecgonine methyl ester | 106293-60-1 | 97   |
|     |      | Ecgonine methyl ester | 106293-60-1 | 97   |
|     |      | Ecgonine methyl ester | 106293-60-1 | 97   |

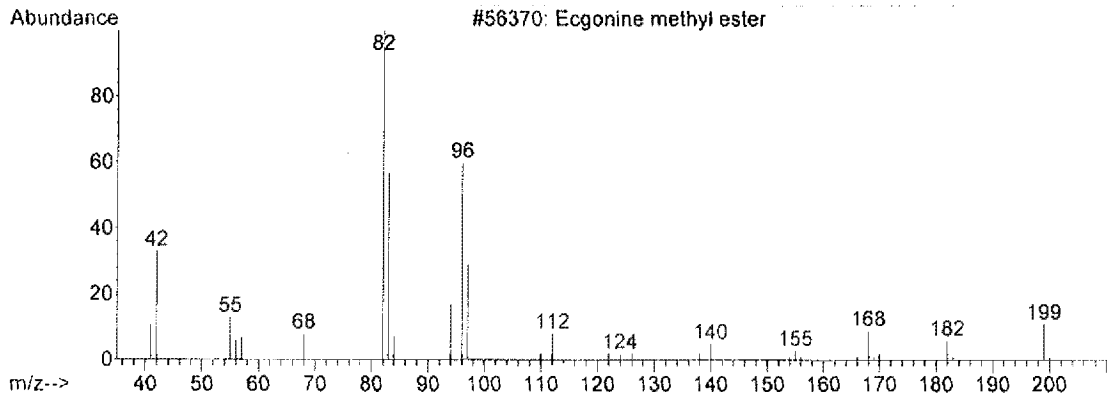
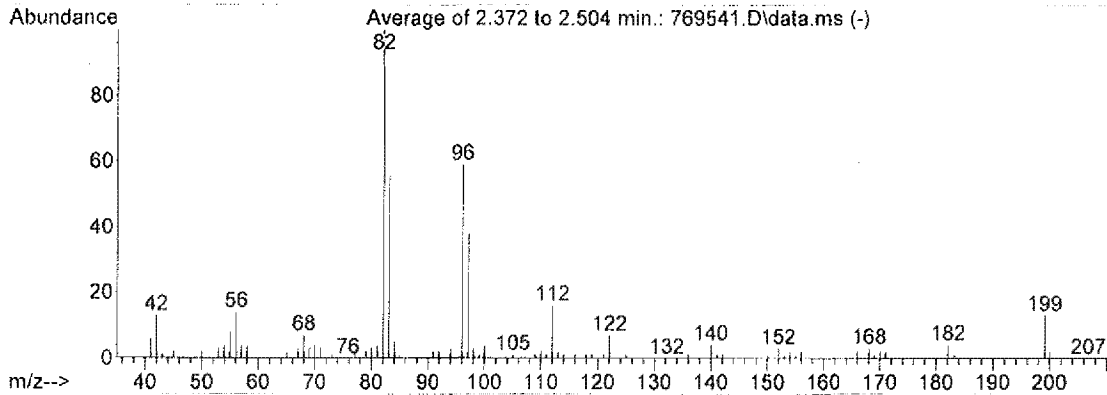


## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769541.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 16:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 41  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 3   | 2.39 | C:\Database\NIST05a.L        |             |      |
|     |      | Ecgonine methyl ester        | 106293-60-1 | 80   |
|     |      | Ecgonine methyl ester        | 106293-60-1 | 72   |
|     |      | Butyramide, 2-cyano-2-ethyl- | 018705-38-9 | 43   |



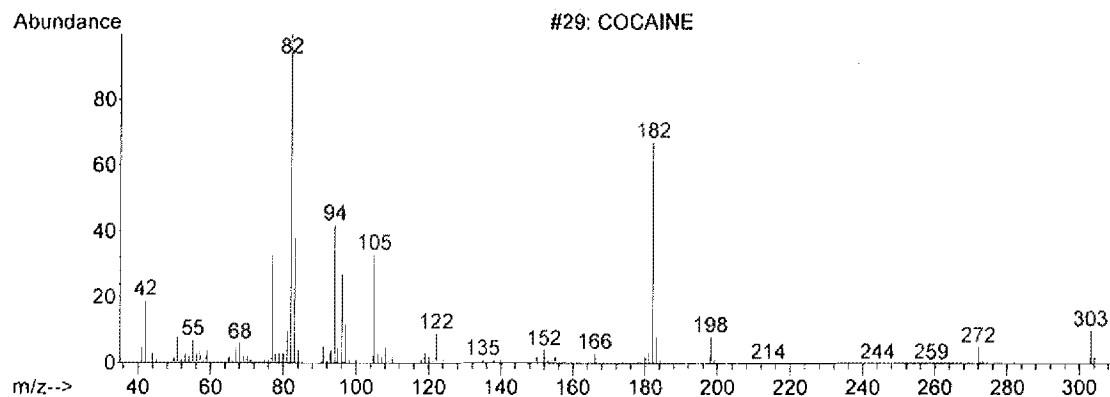
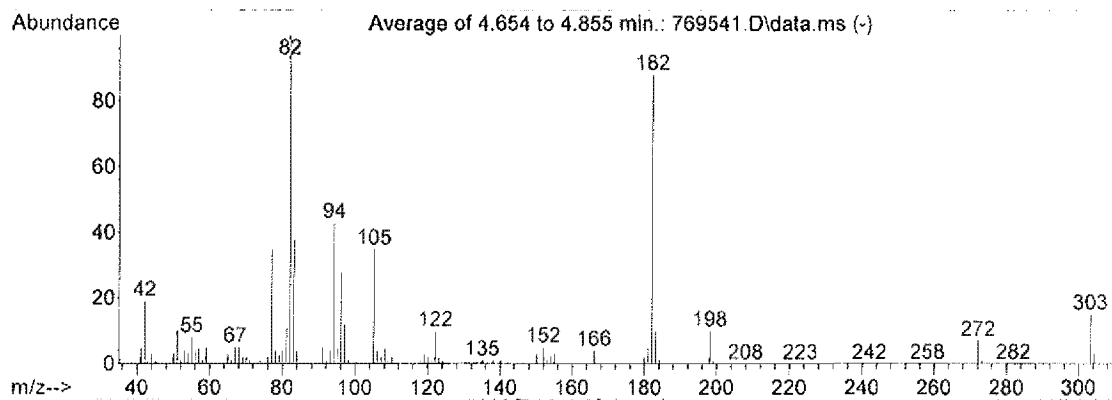
## Area Percent / Library Search Report

## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769541.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 16:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 41  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 4   | 4.70 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



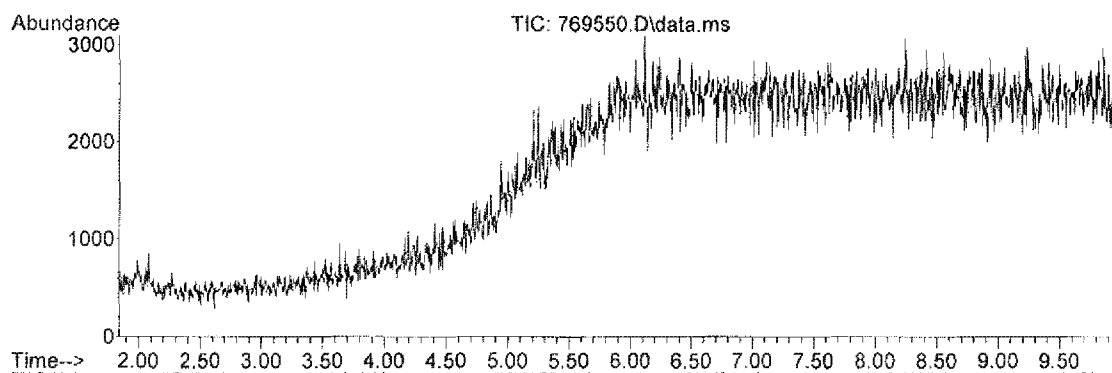
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769550.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 18:09  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*



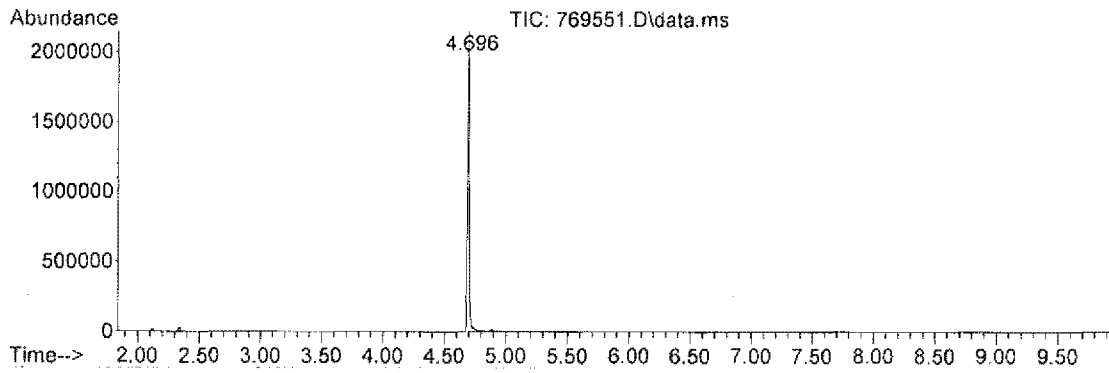
Area Percent / Library Search Report

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Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769551.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 18:22  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 51  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.696     | 2232900 | 100.00 | 100.00  |

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## Information from Data File:

File Name : F:\SYSTEM7\02\_03\_11\769551.D  
Operator : DCS  
Date Acquired : 3 Feb 2011 18:22  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 51  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.70 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |

